

CONSTRUCTION VALUE ENGINEERING CONCEPT PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION

Date 07/31/2008

Contract ID 070330-803

Job No. J8P0570 & J8P0832

County Greene Route 65

Original Bid Cost \$16,689,405.98

Contractor Emery Sapp & Sons, Inc.

By Nolan (Chip) Jones

Designed By Nolan (Chip) Jones

Phone (573) 445-8331

**VECP 08-92**

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Leave west shoulder of existing pavement in place at 10 feet wide instead of shortening to 4 feet. Advantages are it will save money. It will speed up the completion time of the project and will be safer for workers and traveling public. Disadvantages are it will require the additional 6 feet of shoulder to be fog sealed and the slopes will be a little steeper after the first 6 feet recovery area which will be at a 2% grade.

2. Estimate of reduction in construction costs. \$89,006.81

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

Maintenance would have an additional 6 feet of shoulder to maintain but they shouldn't need to do much work on it since it will be an inside shoulder and it will be fog sealed during the project.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

08/01/2008

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

08/22/2008

(date)

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

9/12/2007

(date and/or dates)

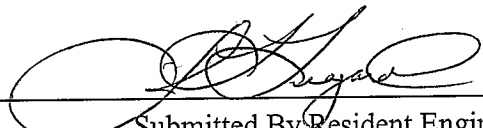
**Additional Comments:**

This is being submitted as a Practical Design Proposal and we would only be eligible for 25% of the savings.

**\*\* Portion Below This Line To Be Filled Out by MoDOT \*\***

Comments: THIS VE IS CONSTRUCTABLE AND PROVIDES VALUE TO THE STATE OF MISSOURI BY NOT REMOVING A PORTION OF THE EXISTING SHOULDER AND ALLOWING IT TO REMAIN IN PLACE. THIS REDUCES THE OVERALL COST OF CONSTRUCTION BY \$89,006.81 WHICH SHOULD BE SPLIT 50/50. I RECOMMEND APPROVAL OF THIS VE.

27/75  
ATM

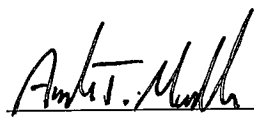
  
Submitted By Resident Engineer

9/17/08

Date

Comments: I recommend approval with the savings split 25/75 (contractor/MoDOT) as per "contractor practical design" guidelines in original agreement with ESS.

- ☒ Approval  
Recommended  
☐ Rejection  
Recommended

  
District Engineer

9/22/08

Date

Comments:

APPROVED PER DISTRICT RECOMMENDATION

- ☒ Approval  
☐ Rejection



State Operations Engineer

11-4-08

Date

Distribution: Resident Engineer, District Operations Engineer, State Operations Engineer  
\*Value Engineering Administrator - \*MoDOT, P.O. Box 270, Jefferson City, MO 65102



# MEMORANDUM

Missouri Department of Transportation

District 8  
Springfield Construction

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**TO:** Andy Mueller  
Assistant District Engineer

**CC:**

**FROM:** Johnny Teegardin  
Resident Engineer

**DATE:** September 17, 2008

**SUBJECT:** VE Proposal # 1 – 10 FT Median Shoulder  
**Job No.:** J8P0570/832  
**Route:** 65  
**County:** Greene

Please find enclosed for your review, comments, and recommendation/rejection and forward to Construction Division this VE proposal submitted by Emory, Sapp, and Sons to leave the existing median side shoulder adjacent to the existing North Bound Lanes in lieu of the proposed removal of 6 feet of shoulder reducing the width down to 4 feet. This results in a net savings of \$89,006.81. This savings shall be split ~~50/50~~ due to agreement with contractor who submitted the original VE.

25/75  
ATM  
9/22/08

Copy: File

jt



## MEMORANDUM

Missouri Department of Transportation  
Construction and Materials  
District 8

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**TO:** Dave Ahlvers  
State Operations Engineer

**FROM:** Jimmy McDiarmid  
Operations Engineer - Construction

**DATE:** September 26, 2008

**SUBJECT:** Value Engineering Proposal  
Contract 070330-803  
J8P0570 & J8P0832  
Route 65, Greene County

Attached for your review and approval are Value Engineering Proposal from Emery Sapp & Sons on the above referenced project. The proposal has been thoroughly reviewed and recommendation is made for approval.

Should you have any questions or concerns, please don't hesitate to contact my office.

mj  
Attachment



EMERY SAPP & SONS, INC.

2602 N. Stadium Blvd.  
Columbia, MO 65202  
O: 573.445.8331  
F: 573.445.0266

140 Walnut St.  
Kansas City, MO 64106  
O: 816.221.3500  
F: 816.421.9333

July 24, 2008

Mr. Johnny Teegardin, R.E.  
Missouri Dept. of Transportation  
2549 North Mayfair  
Springfield, MO 65803

JUL 31 2008

**RE: Practical Design Proposal,  
US 65, Greene County  
Job No. J8P0570 & J8P0832**

Mr. Teegardin:

Attached to this letter is Form C-104, Construction Value Engineering Concept Proposal. This is a Practical Design Proposal that leaves the 10 foot shoulder in place on the existing pavement instead of cutting the shoulder down to 4 feet wide.

**Total Savings from acceptance of VE Proposal:**

**\$89,006.81**

Notes to this Proposal:

1. Besides the cost savings of reducing the total volume of unclassified material that will be required to be moved by almost 14,613 Cubic Yards:
  - a) It will provide minimum interruption to the traffic flow on existing US Route 65 because it will eliminate sawing the existing shoulder.
  - b) It will reduce construction time, so that the material in the shoulder for Stage 2 Construction will be eliminated.
  - c) It will eliminate additional erosion control items needed in the Second Stage of Construction.
  - d) It should also allow for an earlier completion of the entire project.

We believe that this proposal includes numerous advantages – including cost savings – that will benefit MoDOT and the traveling public. If you have any questions, please contact me at (573) 489-9211. Thank you for your consideration of this proposal.

Sincerely,

Emery Sapp & Sons, Inc.

Chip Jones, P.E.  
Project Manager

**SUMMARY OF ELIMINATED COSTS**  
**VALUE ENGINEERING PROPOSAL**  
**GREENE COUNTY ROUTE 65**  
**PROJECTS: J8P0570 & J8P0832**

LINE NO.	ITEM DESCRIPTION	ELIMINATED QUANTITY	UNITS	UNIT PRICE	ELIMINATED COSTS
0040	UNCLASSIFIED EXCAVATION	14613	CY	\$ 2.65	\$ 38,724.45
	REMOVALS - FULL DEPTH SAW CUT	39800	LF	\$ 0.89	\$ 35,422.00
0820	SEEDING - COOL SEASON	7.2	AC	\$ 1,365.00	\$ 9,828.00
0870	TEMPORARY SEEDING & MULCHING	23.75	AC	\$ 800.00	\$ 19,000.00
0910	FOG SEAL - EXTRA NEEDED	-7759.8	GAL	\$ 1.80	\$ (13,967.64)
<b>TOTAL COSTS ELIMINATED</b>					<b>\$ 89,006.81</b>

# VALUE ENGINEERING CHECK SHEET

## TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☒ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. \_\_\_\_\_

## SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

\_\_\_\_\_ Use existing shoulder pavement in place in lieu of replacing it.

## SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

\_\_\_\_\_ Scan proposal only